

<h1 style="margin: 0;">PCT</h1> <h2 style="margin: 0;">REQUEST</h2> <p style="margin: 10px 0;">The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.</p>		For receiving Office use only	
		International Application No.	
		International Filing Date	
		Name of receiving Office and "PCT International Application"	
		Applicant's or agent's file reference (if desired) (12 characters maximum) 005363-3249	
Box No. I TITLE OF INVENTION SYNERGISTIC EFFECT OF CAROTENOIDS			
Box No. II APPLICANT <input type="checkbox"/> This person is also inventor			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) TRUSTEES OF TUFTS COLLEGE TUFTS UNIVERSITY Medford, Massachusetts 02155 United States of America		Telephone No. Facsimile No. Teleprinter No. Applicant's registration No. with the Office	
State (that is, country) of nationality: <div style="text-align: center;">US</div>		State (that is, country) of residence: <div style="text-align: center;">US</div>	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) YEUM, Kyung-Jin 29 Lockeland Road Winchester, Massachusetts 01890 United States of America		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: <div style="text-align: center;">KR</div>		State (that is, country) of residence: <div style="text-align: center;">US</div>	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box			
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) ENGELLENNER, Thomas J. Nutter McClennen & Fish LLP World Trade Center West 155 Seaport Boulevard Boston, Massachusetts 02210-2604 United States of America		Telephone No. <div style="text-align: center;">(617) 439-2948</div> Facsimile No. <div style="text-align: center;">(619) 310-9948</div> Teleprinter No. Agent's registration No. with the Office <div style="text-align: center;">28,711</div>	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.			

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Supplemental Box *If the Supplemental Box is not used, this sheet should not be included in the request.*

Continuation of Box IV

Agent:

CAHILL, Ronald E.
CRONIN, Kevin M.
GEARY, William C. III
MICHAUD, Lisa J.
MILLER, Deborah A.

MOLLAAGHABABA, Reza
POWSNER, David J.
SAGOO, Jasbir
XIXIS, George A.

The above attorneys and agents are members of the firm of
Nutter McClennen & Fish LLP. Address, telephone number, facsimile
number and teleprinter number of all are indicated in Box IV.

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Box No. V DESIGNATIONS

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection.
- ☐ KR Republic of Korea is not designated for any kind of national protection.
- ☐ RU Russian Federation is not designated for any kind of national protection.

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application receiving Office
item (1) 10 March 2004 (10.03.2004)	60/551,742	US		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☒ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)).

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code maybe used):

ISA/EP

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of
declarations

- | | | |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i) | Declaration as to the identity of the inventor | : |
| <input type="checkbox"/> Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| <input type="checkbox"/> Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

Box No. IX CHECK LIST; LANGUAGE OF FILING**This international application contains:****(a) in paper form, the following number of sheets:**

request (including declaration sheets) : **4**
 description (excluding sequence listings and/or tables related thereto) : **28**

claims : **3**

abstract : **1**

drawings : **6**

Sub-total number of sheets : 42

sequence listings :

tables related thereto :

(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)

Total number of sheets : 42

(b) ☐ only in computer readable form (Section 801(a)(i))

(i) ☐ sequence listings

(ii) ☐ tables related thereto

(c) ☐ also in computer readable form (Section 801(a)(ii))

(i) ☐ sequence listings

(ii) ☐ tables related thereto

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the

☐ sequence listing:

☐ tables related thereto:

(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)

This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):

Number of items

1. ☒ **fee calculation sheet** : **1**

2. ☐ original separate power of attorney :

3. ☐ original general power of attorney :

4. ☐ copy of general power of attorney; reference number, if any: :

5. ☐ statement explaining lack of signature :

6. ☐ priority document(s) identified in Box No. VI as item(s): :

7. ☐ translation of international application into (language): :

8. ☐ separate indications concerning deposited microorganisms or other biological material :

9. ☐ sequence listing in computer readable form (indicate type and number of carriers)

(i) ☐ copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international annunciation) :

(ii) ☐ (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter :

(iii) ☐ together with relevant statement as to the identity of the copy or copies with the sequence listings part mentioned in left column tables in computer readable form related to sequence listing (indicate type and number of carriers) :

10. **(i) ☐ copy submitted for the purposes of international search under Section 802 (b-quater) only (and not as part of the international application)** :

(ii) ☐ (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802 (b-quater) :

(iii) ☐ together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column :

11. ☒ **other (specify): Transmittal Letter; Check (\$3607); and Return Postcard.** : **3**

Figure of the drawings which should accompany the abstract: **6**

Language of filing of the international application: ENGLISH

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Thomas J. Engeliener, Agent for Applicant(s)
NUTTER MCLENNEN & FISH LLP

For receiving Office use only

1. Date of actual receipt of the purported international application:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

4. Date of timely receipt of the required corrections under PCT Article 11(2):

5. International Searching Authority (if two or more are competent):

ISA /

6. ☐ Transmittal of search copy delayed until search fee is paid

2. Drawings:

☐ received:

☐ not received:

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

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